Methamphetamine Lab Cleanup - Case Study

Ewan Moffat ewan.moffat@sdcounty.ca.gov (619) 338-2212

Discussion Topics

- Quick Review February 2006
 Methamphetamine Talk
- Overview of Three Existing Cases
- Detailed Discussion of One of the Cases



Methods to Make Meth

- 1. Red Phosphorus (Red P)
 - ~ 99% of labs in San Diego

- 2. Ammonia (Birch, Nazi)
- 3. Phenyl-2-propanone (P2P)



RED PHOSPHOROUS METHOD

EPHEDRINE/ PSEUDOEPHEDRINE



RED PHOSPHOROUS







OR

HYDRIODIC ACID









Decant the Oil from the Top



Dissolve the Oil in a Solvent for Further Use

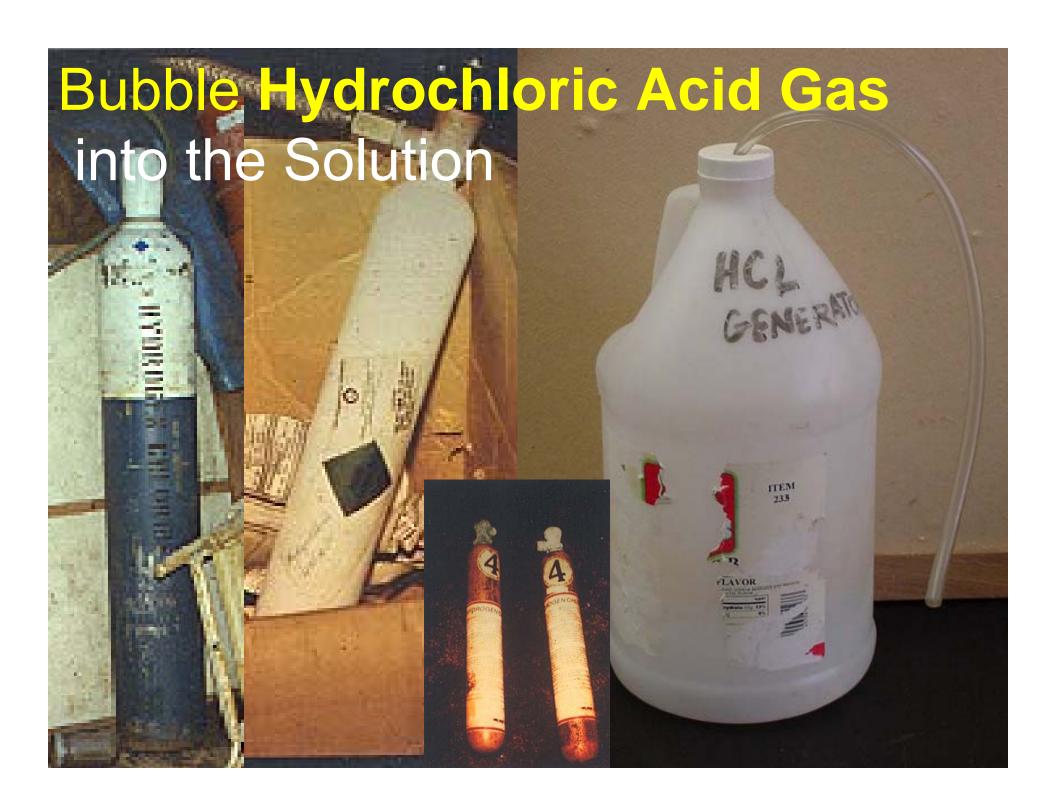
Examples of Solvents



ETHER

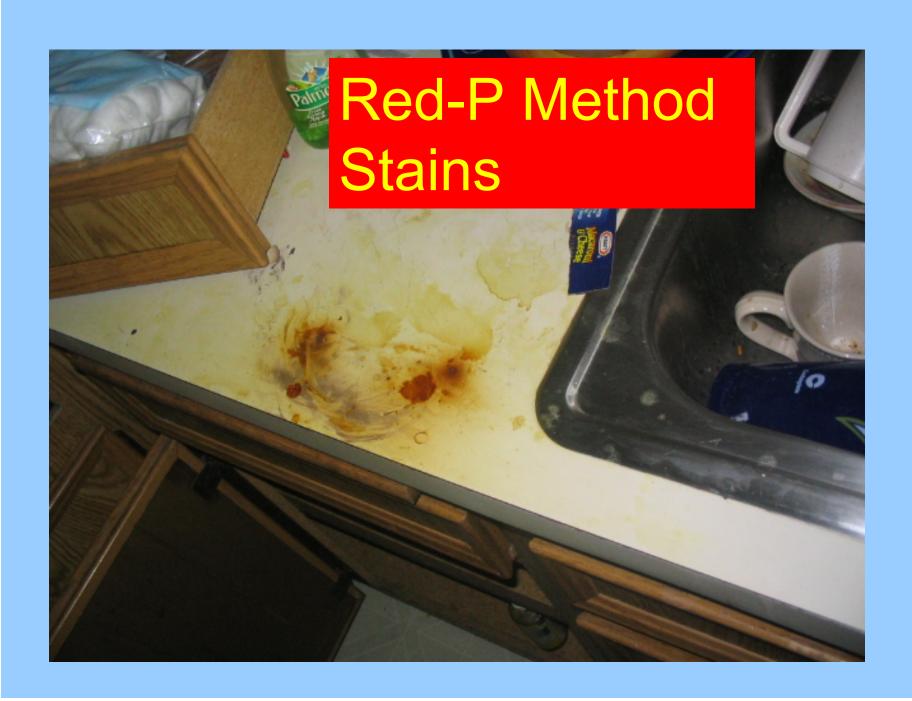


COLEMAN FUEL









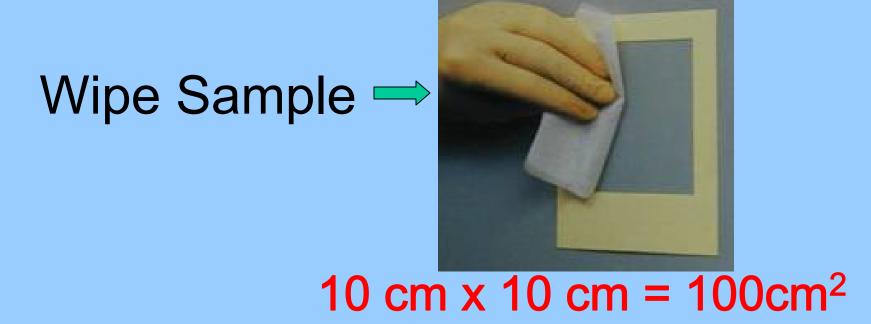
AB 1078

Preliminary Site Assessment Report

- Impacted Area Defined
- Plan to Remediate

Indoor Sampling

- 4 Walls, Floor and Ceiling (Total of 6)



AB1078 Cleanup Levels

Red-P Method
Stains

Absent

• Methamphetamine - ≤ 0.1µg/100cm²



Field Testing

Drop Wipe in

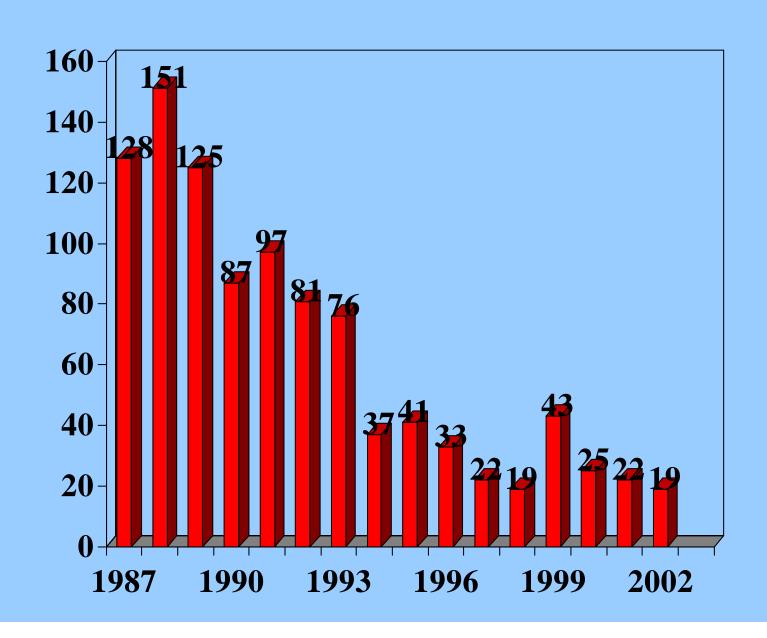
Utilized by the Response Team for Screening of Methamphetamine Residue

Cleanup Methods

- Remove and Dispose
- Wash / Triple Rinse*
- Encapsulation Oil Based Paint*

* Confirmation Samples Required

Drug Labs responded to by DEH



3 Active Sites for 2006.

- Site A Small Scale Lab. Red-P
- Site B* Small Scale Lab. Red-P
- Site C Methamphetamine Storage
 Only

* Will Discuss in Detail Later

3 Active Sites for 2006

- Site A Traffic Stop
- Site B* Domestic Dispute
- Site C Warrant Served for Parole Violation.



Subject Still at Large

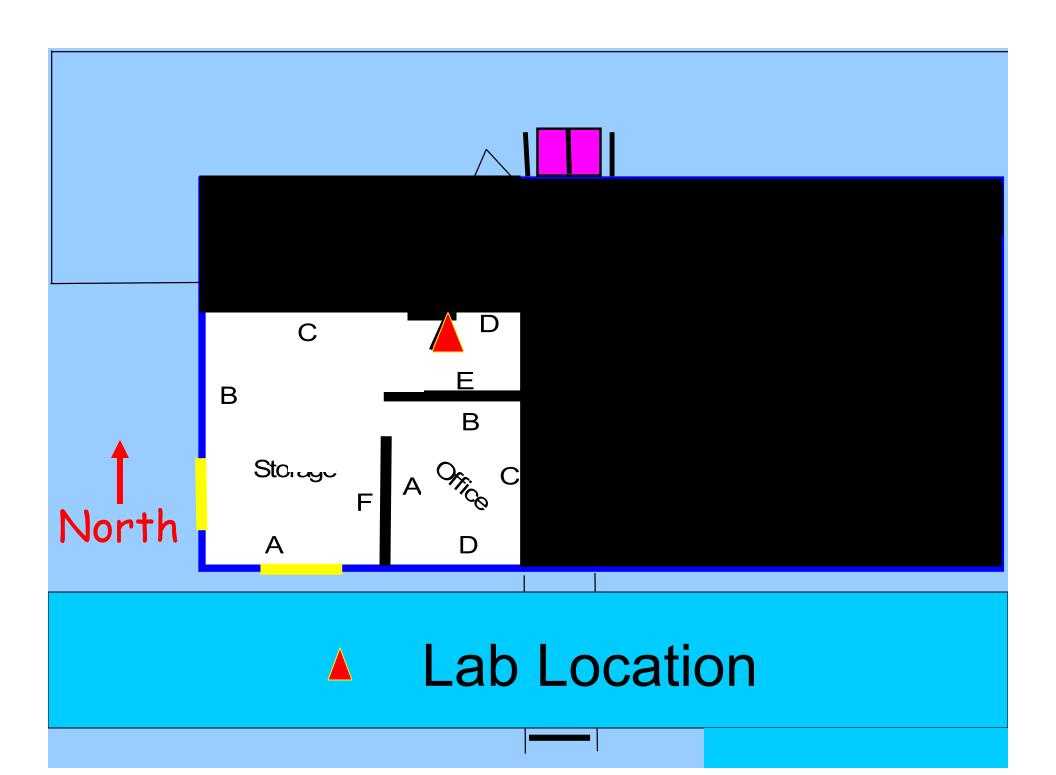


· Lab for Today's Talk





DEA Chemists sampling drug lab waste

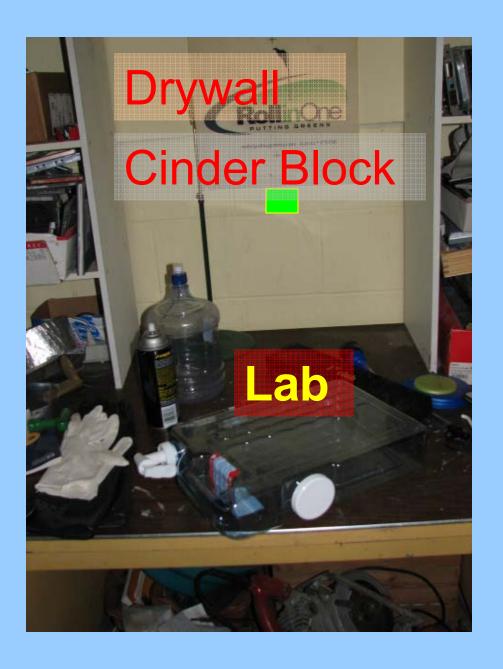




Lab Location

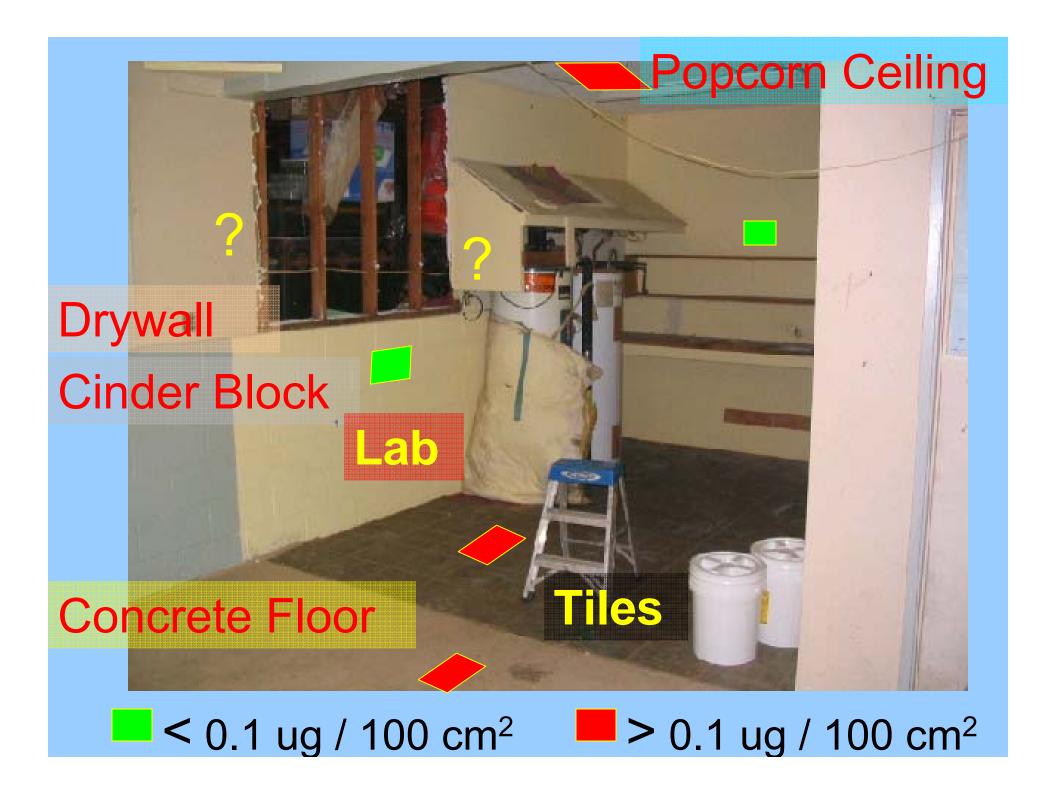
Cinder Block Above Lab Sampled. ND

< 0.1 ug / 100 cm²





 $< 0.1 \text{ ug} / 100 \text{ cm}^2$ $= > 0.1 \text{ ug} / 100 \text{ cm}^2$



Popcorn Ceiling

- No Asbestos
- Will Remove Entire Ceiling

Concrete Floor

- Washed
- 50 / 50 Phosphoric Acid
- · Confirmation Samples High FAILED
- Washed
- Chlorine Solution
- · Confirmation Samples High FAILED

Concrete Floor - What Now?

Idea #1

- Remove Thin Layer of Concrete
 - -- Methamphetamine Dust Issues

Idea #2

- Encapsulation with Suitable Sealant
 - -- Confirmation Samples Required

Indoor Surfaces - Summary

- Lab Bench / Desk Remove
 Popcorn Ceiling Remove √
- Drywall Remove
- Cinder Block Samples ND. No Action
- Remove
- Concrete Floor Remove Thin Surface Layer
 OR Encapsulate*
 - * Confirmation Samples Required



Outdoor Reconnaissance



West Side of Yard Where Can of Gasoline Located. Not Methamphetamine-Related.

Septic Systems

- Stains on Drainage Features?
 - NO
- Recommend Pump Out

Review of Site "B" Status

- Residence All Clear
- No Evidence of Septic Tank Impact
- No Evidence of Outdoor Impact
- Garage Still Needs Some Surfaces Evaluated (Concrete Floor)

Questions?



Ewan Moffat ewan.moffat@sdcounty.ca.gov (619) 338-2212